

## WHAT IS CLAIMED IS:

Sub A

1. An arrangement for coupling a cathode ray tube (CRT) to a socket which is mounted on a circuit board, said CRT having a funnel portion and a neck portion containing an electron gun, the terminals for said electron gun being  
5 positioned along the side of the neck portion of said CRT, said circuit board being positioned with a first side facing said funnel portion and a second side facing away from said funnel portion, said socket having terminals which engage corresponding terminals on said CRT, said socket terminals being positioned on  
10 said second side of said circuit board.

2. An arrangement as in Claim 1, in which said circuit board has a plurality of components mounted thereon, none of said components extending away from said funnel portion further than the rearmost portion of said socket.

3. An arrangement of Claim 2, in which said circuit board has a plurality of components mounted on said first side.

4. An arrangement of Claim 1, in which said socket has a back cover which abuts the end of said neck portion.

Add  
A2Add  
C2

T05250-010180

Brief Description of the Drawing

In the Drawing:

The sole FIGURE shows an exploded view of a socket board and the rear portion  
5 of a CRT.

Detailed Description

The sole FIGURE shows a cathode ray tube (CRT) 18 having a funnel portion 20  
and a neck portion 22 which contains an electron gun 26. The terminals 24  
which connect to electron gun 26 are fed through the side of the neck portion  
10 22 and lie along the surface of neck portion 22. The invention is equally  
applicable to a cathode ray tube whose gun terminals exit through the end of  
neck portion 22 and are folded forward along the surface of neck portion 22.

Socket board 34 has electronic components 16 mounted thereon together with  
CRT socket 10 which contains spring contacts 28. Contacts 28 serve as  
15 terminals to connect to CRT terminals 24. Components 16 may be mounted on  
either side of socket board 34, as long as no component extends away from the  
funnel portion of the CRT further than the end of socket 10. Socket 10 is  
mounted on the side of the circuit board facing away from the funnel portion 20  
of CRT 18. When socket 10 is engaged with neck portion 22 by mating the  
20 parts in the direction shown by arrow 32, there is substantially no protrusion of  
any portion of socket board 34 beyond the end of neck portion 22.

Socket 10 is provided with a back cover 12 which abuts the end of neck portion  
22, and assists in properly positioning contacts 28 with respect to terminals 24.

The Applicant has found that the use of the invention may reduce the depth of  
25 the cabinet by three to four centimeters.